

Atty. Docket No.: 21153-05920

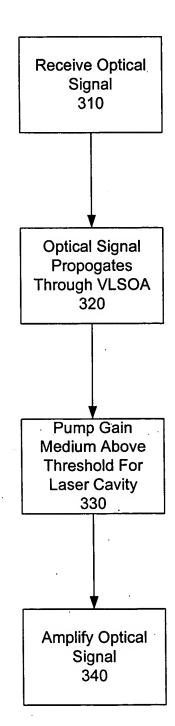


Figure 3

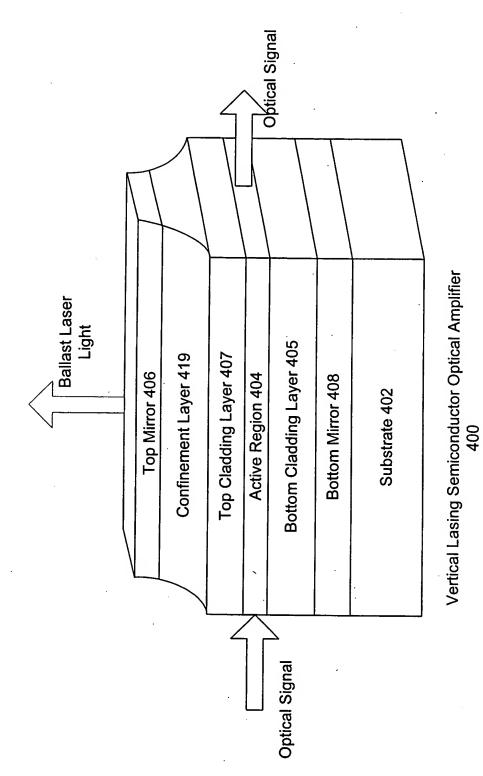
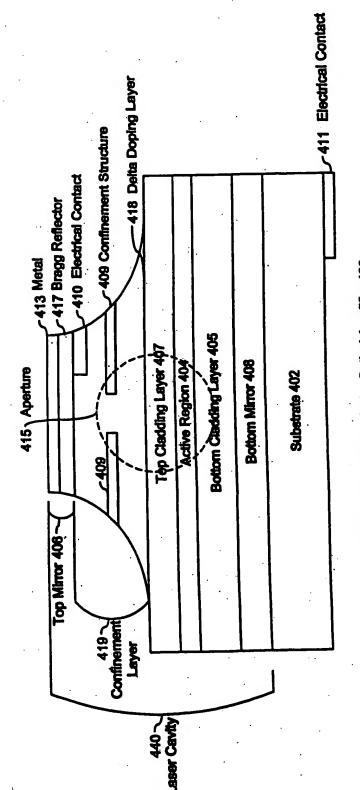
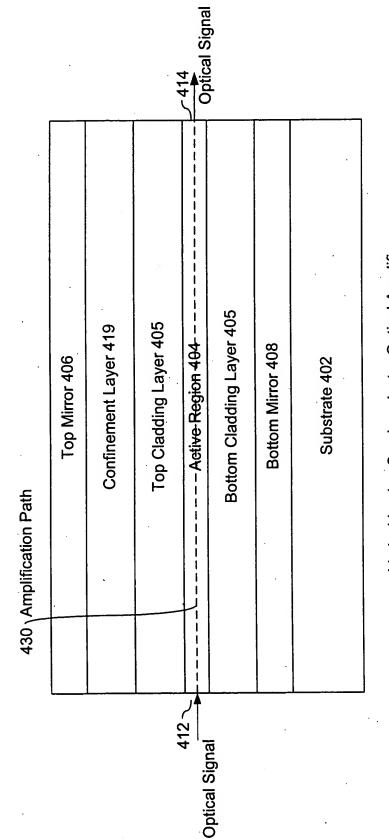


Figure 4A

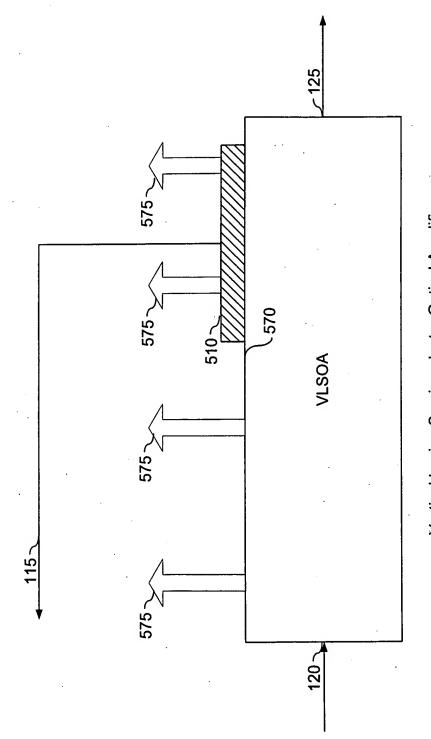


Vertical Lasing Semiconductor Optical Amplifier 400



Verical Lasing Semiconductor Optical Amplifier

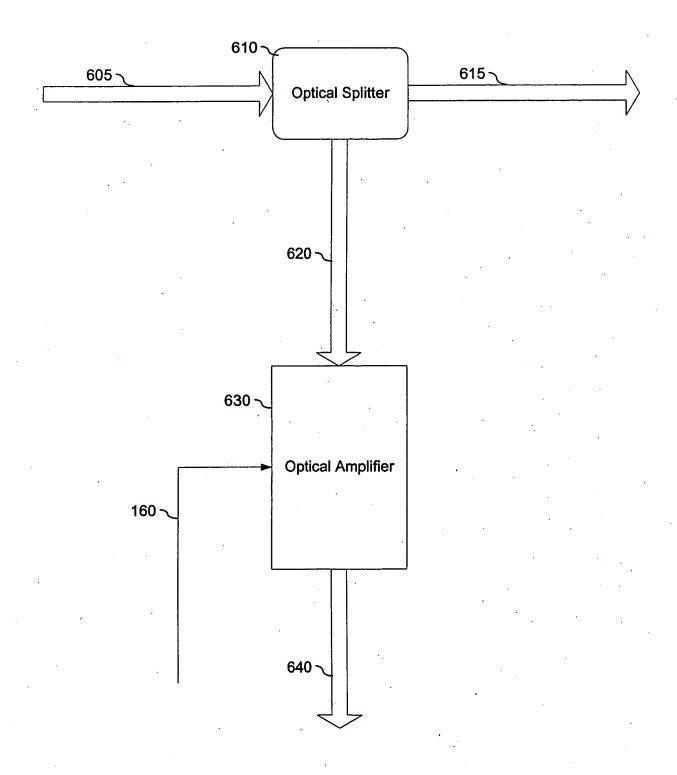
Figure 4C



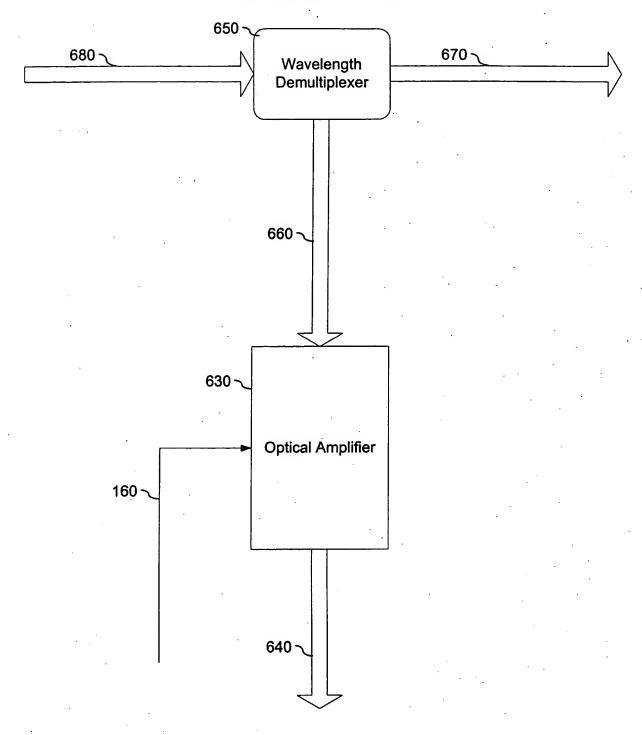
Vertical Lasing Semiconductor Optical Amplifier 500

Figure 5

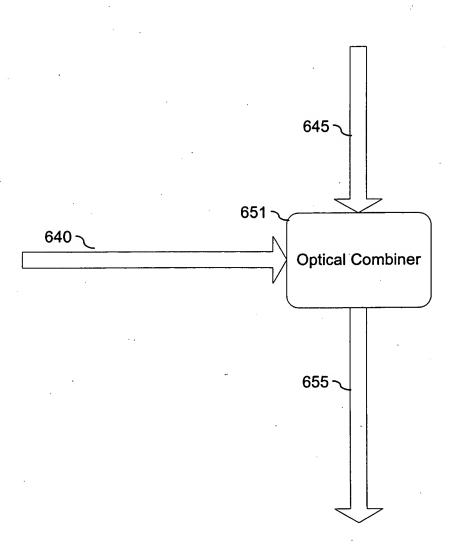
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Optical Routing Node 170
Figure 6A



Optical Routing Node 170 Figure 6B



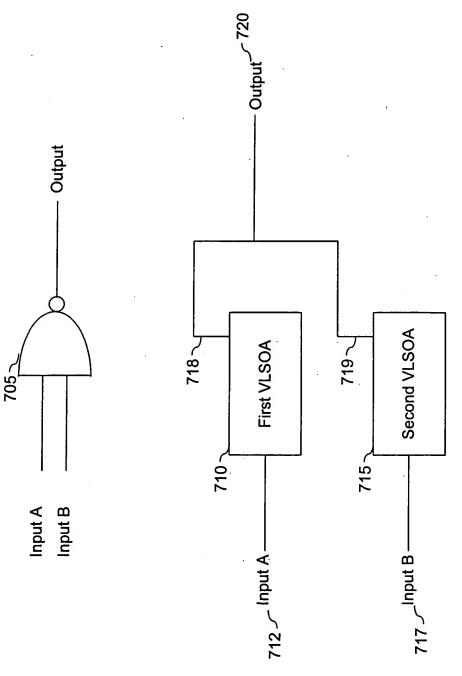
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Optical Combiner 151 Figure 6C

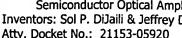
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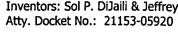
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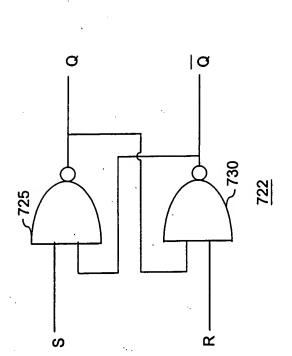


Optical NAND Gate 700

Figure 7A

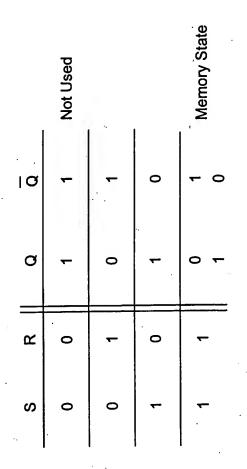




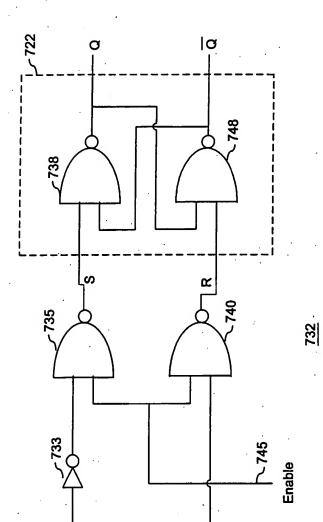


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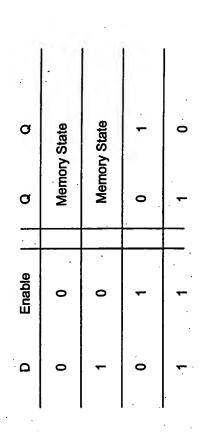


Optical Flip-Flop

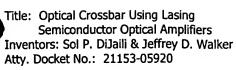


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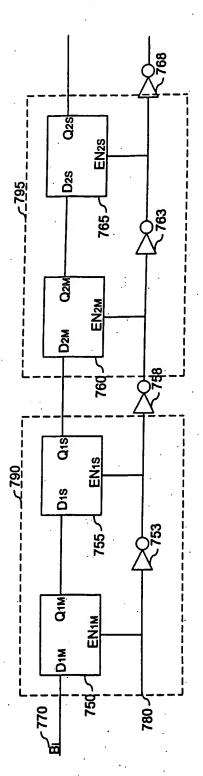
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Optical Buffer Element Figure 7C



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Title: Optical Crossbar Using Lasing

Semiconductor Optical Amplifiers Inventors: Sol P. DiJaili & Jeffrey D. Walker

Figure 8

With New Signal At Same or Different Input Port